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TITLE: Integrin-linked kinase and its uses

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INVENTOR-INFORMATION:

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US-CL-CURRENT: 435/194; 435/15, 435/4, 530/350

CLAIMS:

What is claimed is:

1. A method of in vitro screening for biologically active agents that modulate the phosphorylation activity of integrin linked kinase (ILK), the method comprising:

combining in a reaction mixture a candidate biologically active agent; a human ILK polypeptide; a substrate for ILK kinase; and ATP;

measuring the phosphorylation of said substrate in the presence of said candidate biologically active agent, compared to a control sample in the absence of said agent;

wherein a decrease in phosphorylation is indicative that said agent is an inhibitor of ILK and an increase in phosphorylation is indicative that said agent is an enhancer of ILK.

2. A method of claim 1, wherein said reaction mixture further comprises (Ptdlns (3,4,5)P.sub.3) and wherein said agent inhibits the binding of (Ptdlns (3,4,5)P.sub.3) to ILK.

3. The method of claim 1, wherein said ILK substrate is protein kinase B at amino acid residue ser473.

4. The method of claim 1, wherein said substrate is ILK.